



Water-Data Report 2006

**09337500 ESCALANTE RIVER NEAR ESCALANTE, UT**

Upper Colorado-Dirty Devil Basin  
Escalante Subbasin

LOCATION.--Lat 37°46'41", long 111°34'26" referenced to North American Datum of 1927, in NE ¼ NW ¼ SE ¼ sec.9, T.35 S., R.3 E., Garfield County, UT, Hydrologic Unit 14070005, Bureau of Land Management, on left bank 150 ft downstream from Pine Creek and 1.5 mi northeast of Escalante.

DRAINAGE AREA.--320 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--August 1909 to April 1913, October 1942 to September 1955, December 1971 to current year. Published as Escalante Creek near Escalante 1909-13.

REVISED RECORDS.--WSP 1149: 1943(M), 1944, 1945(M). WDR UT-73-1: 1972.

GAGE.--Water-stage recorder. Crest-stage gage since June 15, 1994. Elevation of gage is 5,670 ft above NGVD of 1929, from topographic map. Prior to April 30, 1913, non-recording staff gage at approximately same site at different datum.

REMARKS.--Records good except discharges less than 2.0 ft<sup>3</sup>/s, and estimated daily discharges, which are poor. Low flows affected by diversion into Wide Hollow Reservoir (capacity 2,300 acre-feet), an off-channel reservoir 4 mi upstream, and by a diversion on Pine Creek for irrigation of about 2,300 acres.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,550 ft<sup>3</sup>/s, Aug 24, 1998, gage height, 11.05 ft, from rating curve extended above 150 ft<sup>3</sup>/s on basis of slope-area measurements at gage heights, 5.31 ft, 6.25 ft, 7.59 ft, and 11.05 ft; minimum daily discharge, 0.07 ft<sup>3</sup>/s, Jul 11, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 731 ft<sup>3</sup>/s, Aug 12, gage height 4.74 ft, from rating curve extended above 220 ft<sup>3</sup>/s as explained above; minimum daily discharge, 0.53 ft<sup>3</sup>/s, Jul 24, 25, 27, 28.

## 09337500 ESCALANTE RIVER NEAR ESCALANTE, UT—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**  
**DAILY MEAN VALUES**  
[*e*, estimated; &, affected value]

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	20	38	25	12	e14	43	19	46	e7.6	e0.90	e11	e0.70
<b>2</b>	28	34	26	12	e16	21	20	23	e6.8	e1.5	e8.0	0.92
<b>3</b>	28	25	24	12	e11	20	15	39	e6.5	e1.0	e4.0	0.66
<b>4</b>	25	26	14	&12	e11	16	27	41	e5.9	e0.90	e5.5	0.79
<b>5</b>	19	26	14	e11	10	23	45	27	e5.5	e0.80	e21	3.9
<b>6</b>	15	26	13	12	11	18	23	21	e5.2	e0.70	e10	1.3
<b>7</b>	18	26	e14	12	12	18	13	27	e4.9	e10	e80	1.1
<b>8</b>	24	25	e12	12	13	17	14	40	e4.5	e25	e39	5.1
<b>9</b>	24	20	e13	11	13	17	19	47	e4.1	e11	e25	7.1
<b>10</b>	25	28	e13	12	12	20	19	36	e3.9	e2.0	e13	5.7
<b>11</b>	26	29	e14	10	13	16	12	29	e3.6	e1.5	e5.9	2.6
<b>12</b>	27	29	e15	11	15	18	11	30	e3.4	e1.0	e58	3.2
<b>13</b>	24	29	e16	12	15	19	12	35	e3.2	e0.59	e11	3.0
<b>14</b>	26	33	e14	12	11	19	14	24	e3.0	e0.59	e10	3.7
<b>15</b>	27	39	e13	15	11	20	14	20	e3.0	e0.59	e31	93
<b>16</b>	29	43	e15	14	13	19	14	19	e7.0	e0.59	e36	e9.5
<b>17</b>	29	42	e18	e13	11	18	14	17	e6.0	e0.59	e12	e9.0
<b>18</b>	107	38	e20	e16	12	20	14	16	e3.0	e0.59	e7.0	e8.0
<b>19</b>	54	26	&21	e14	17	19	13	15	e2.0	e8.1	e3.0	e7.5
<b>20</b>	19	24	20	e12	11	19	12	15	e1.9	e12	e2.0	e7.0
<b>21</b>	15	24	22	e13	28	20	13	14	e1.7	e4.6	e0.82	e7.0
<b>22</b>	20	23	19	e13	23	20	12	14	e1.6	e0.59	e0.82	e7.0
<b>23</b>	20	24	&13	e12	21	20	15	14	e1.4	e0.59	e7.9	e6.0
<b>24</b>	21	24	e12	e13	20	22	13	15	e1.3	e0.53	e8.5	e6.0
<b>25</b>	21	23	e12	e14	20	23	9.4	e12	e1.2	e0.53	e4.0	e5.5
<b>26</b>	22	24	13	e15	19	21	10	e11	e1.1	e5.8	e2.0	e5.5
<b>27</b>	23	17	12	e14	19	20	19	e11	e0.90	e0.53	e0.74	e5.5
<b>28</b>	61	15	12	e13	25	28	23	e9.7	e0.80	e0.53	e0.74	e5.0
<b>29</b>	48	17	12	e15	---	95	36	e9.7	e0.80	e33	e0.74	e5.0
<b>30</b>	34	25	12	e13	---	25	49	e9.1	e0.70	e32	e0.74	e5.0
<b>31</b>	35	---	11	e16	---	11	---	e8.3	---	e38	e0.74	---
<b>Total</b>	914	822	484	398	427	705	543.4	694.8	102.50	196.64	420.14	231.27
<b>Mean</b>	29.5	27.4	15.6	12.8	15.2	22.7	18.1	22.4	3.42	6.34	13.6	7.71
<b>Max</b>	107	43	26	16	28	95	49	47	7.6	38	80	93
<b>Min</b>	15	15	11	10	10	11	9.4	8.3	0.70	0.53	0.74	0.66
<b>Ac-ft</b>	1,810	1,630	960	789	847	1,400	1,080	1,380	203	390	833	459

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 – 55, 1973 - 2006, BY WATER YEAR (WY)

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	7.86	7.16	7.17	8.44	10.3	12.6	13.6	24.1	20.2	6.48	8.64	6.98
<b>Max</b>	29.9	27.4	18.1	26.4	23.8	39.7	54.8	124	175	31.1	30.8	39.4
(WY)	(1973)	(2006)	(1943)	(1950)	(1943)	(1989)	(1993)	(1973)	(2005)	(2005)	(1983)	(1998)
<b>Min</b>	0.41	0.80	0.77	0.96	1.21	0.67	1.23	0.88	0.47	0.28	0.31	0.73
(WY)	(2004)	(1991)	(1991)	(1991)	(1993)	(1991)	(1990)	(1954)	(2003)	(2003)	(2002)	(1955)

**09337500 ESCALANTE RIVER NEAR ESCALANTE, UT—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2005</b>	<b>Water Year 2006</b>	<b>Water Years 1943 – 55, 1973 - 2006</b>		
<b>Annual total</b>	15,361.3	5,938.75			
<b>Annual mean</b>	42.1	16.3	11.3		
<b>Highest annual mean</b>			37.4		
<b>Lowest annual mean</b>			1.49		
<b>Highest daily mean</b>	307	Jun 3	Oct 18	367	Sep 11, 1998
<b>Lowest daily mean</b>	2.8	Jan 7	Jul 24	0.07	Jul 11, 1990
<b>Annual seven-day minimum</b>	2.9	Jan 2	Jul 12	0.10	Jul 5, 2004
<b>Annual runoff (ac-ft)</b>	30,470	11,780	8,170		
<b>10 percent exceeds</b>	119	29	24		
<b>50 percent exceeds</b>	20	14	5.0		
<b>90 percent exceeds</b>	7.9	1.3	0.97		

